III. CLAIM AMENDMENTS

1-10.   (Cancelled)

11.   (Currently Amended) A transmitter according to claim 29, wherein the processing means includes a memory storing data representing a set of processing manners, said data defining a block size and a transmission time therefor for each processing manner, and the processing means is configured such that the depth of said interleaving corresponds to a transmission time not greater than the least of said defined transmission times.

12.   (Original) A transmitter for transmitting blocks of digital data, the transmitter comprising processing means including a memory storing data representing a set of processing manners, said data defining a block size and a transmission time therefor for each processing manner, wherein the processing means is configured to:

   process at least one data flow, the or each data flow being processed according to manners selected from said set of processing manners;

   concatenate data from the or each data flow and a code identifying said selected manner or manners to produce a block of concatenated data;

   interleave said block; and

   transmit said block,

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wherein the depth of said interleaving corresponds to a
transmission time not greater than the least of said
defined transmission times.

13. (Currently Amended) A transmitter according to claim 11 ~~or 12~~, wherein said defined transmission times are integer
multiples of the transmission time corresponding to said
interleaving depth.

14. (Currently Amended) A transmitter according to claim 11, ~~12 or 13,~~ including a receiving means for receiving a signal
defining said set of processing manners

15. (Original) A transmitter according to claim 14, wherein the
processing means includes a memory storing data representing a
plurality of processing manners and the processing means is
configured for selecting from said stored data in response to
said signal defining said set of processing manners.

16. (Currently Amended) A transmitter according to ~~any one of claims 11 to 15~~claim 11, wherein each processing manner includes
an interleaving process definition.

17. (Original) A transmitter according to claim 16, wherein the
processing means is configured such that the interleaving
according to an interleaving process definition is only
performed if the transmission time of the same processing manner
is greater than the least of the transmission times of said set.

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18. (Currently Amended) A transmitter according to ~~any one of claims 10 to 17~~claim 30, wherein transmitter circuitry comprises radio transmitter circuitry.

19. (Currently Amended) A mobile phone according to ~~any one of claim 10 to 18~~claim 30.

20. (Currently Amended) A base station for a mobile phone network including a transmitter according to ~~any one of claims 10, 11, 12, 13, 15, 16 and 17~~claim 30.

21. (New) A method of transmitting a block of digital data, the method comprising:

    processing first and second data flows in first and second manners to produce first and second processes data flows;

    concatenating data from the first and second processes data flows and a code identifying said manner to produce a block of concatenated data;

    interleaving said block such that the first and second data flows and said code are affected; and

    transmitting said block.

22. (New) A method according to claim 21, including establishing data representing a set of processing manners, said data defining a block size and a transmission time therefor for

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each processing manner, wherein the depth of said interleaving corresponds to a transmission time not greater than the least of said defined transmission times.

23. (New) A method of transmitting a block of digital data, the method comprising:

establishing data representing a set of processing manners, said data defining a block size and a transmission time therefor for each processing manner,

processing at least one data flow, the or each data flow being processed according to manners selected from said set of processing manners;

concatenating data from the or each data flow and a code identifying said selected manner or manners to produce a block of concatenated data;

interleaving said block; and

transmitting said block,

wherein the depth of said interleaving corresponds to a transmission time not greater than the least of said defined transmission times.

24. (New) A method according to claim 21, wherein said defined transmission times are integer multiples of the transmission time corresponding to said interleaving depth.

25. (New) A method according to claim 21, including receiving a signal defining said set of processing manners.

26. (New) A method according to claim 25, including storing data representing a plurality of processing manners and selecting from said stored data in response to said signal defining said set of processing manners.

27. (New) A method according to claim 22, wherein each processing manner includes an interleaving process definition.

28. (New) A method according to claim 27, wherein interleaving according to an interleaving process definition is only performed if the transmission time of the same processing manner is greater than the least of the transmission times of said set.

29. (New) A method according to claim 21, wherein said block is transmitted by radio waves.

30. (New) A transmitter for transmitting blocks of digital data, the transmitter comprising processing means configured to:

   process first and second data flows in first and second manners to produce first and second processed data flows,

   concatenate data from the first and second processed data flows and a code identifying said manners to produce a block of concatenated data, and interleave said block such

that the first and second data flows and said code are affected; and

transmitting circuitry for transmitting said block.